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- (71) Applicant (*for all designated States except US*): MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V. [DE/DE]; Hofgartenstrasse 8, 80539 München (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): TUSCHL, Thomas [DE/US]; 504 East 63rd Street #37R, New York, NY 10021 (US). MARTINEZ, Javier [ES/US]; 504 East 63rd Street, Apt. 15 M, New York, NY 10021 (US). PATKAN-IOWSKA, Agnieszka [PL/US]; Rockefeller University, 1230 York Avenue, App. 306, Box 186, New York, NY 10021 (US). URLAUB, Henning [DE/DE]; Reinhäuser Landstr. 41, 37083 Göttingen (DE). LÜHRMANN, Reinhard [DE/DE]; Ewiges Tal 16b, 35041 Marburg-Michelbach (DE).
- (74) Agents: WEISS, Wolfgang et al.; Weickmann & Weickmann, Postfach 860 820, 81635 München (DE).
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(54) Title: RNA-INTERFERENCE BY SINGLE-STRANDED RNA MOLECULES

(57) **Abstract:** The present invention relates to sequence and structural features of single-stranded (ss)RNA molecules required to mediate target-specific nucleic acid modifications by RNA-interference (RNAi), such as target mRNA degradation and/or DNA methylation.